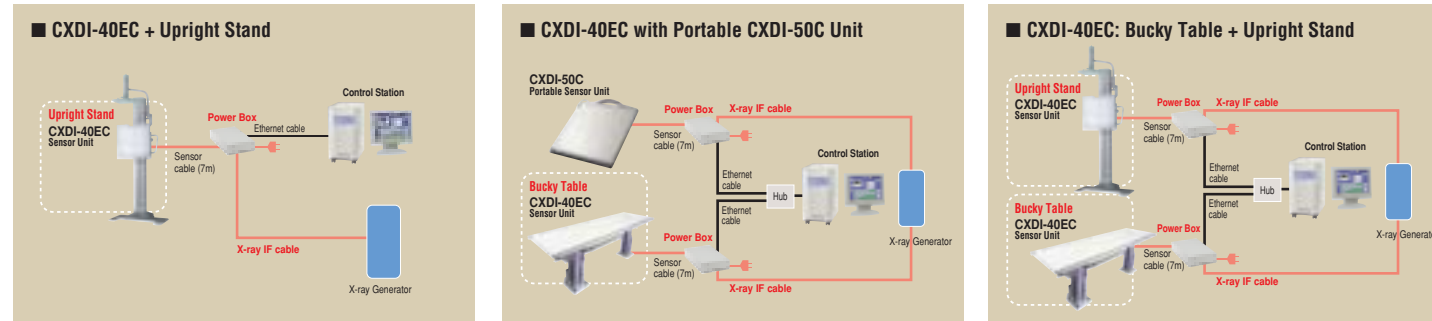


Maximum image quality, minimal X-ray exposure to patients

System Configuration Examples



For exact system configuration details, please contact your local authorized Canon representative.

CXDI-40EC Specifications

Purpose	General radiography
Method	Flat panel detector: scintillator & amorphous silicon (a-Si)
Sensor	LANMIT 8 (Large Area New-MIS sensor and TFT)
Scintillator	CsI (Cesium Iodide): TI
Pixel pitch	160 x 160 microns
Pixels	2,688 x 2,688 pixels (7.2 million pixels)
Image size	Automatic sizing up to 17 x 17 in. (43 x 43 cm)
A/D	14-bit
Grayscale	4,096 grayscale (12-bit)
Preview image access time*	Approx. 3 – 5 seconds after X-ray exposure
Interface	DICOM 3.0, Ethernet 10/100 Base T
DICOM	DICOM 3.0 compatible, Print Management Service Class (SCU), Storage Service Class (SCU), and others
Voltage	100V, 120V, 230/240V (50/60Hz)
Power consumption	Sensor unit: 200VA maximum
Operating environment	Sensor unit: 41 – 95°F (5 – 35°C), 30 – 75% RH (non-condensing)
Certification	FDA 510(k), IEC60601-1-2:2001 Class A, UL 60601-1, EN60601-1, CE0197
Dimensions (W x L x T)	Sensor unit: 21.7 x 21.7 x 2.7 in. (550 x 550 x 67.5 mm)
Weight	Sensor unit: 44 lb. (20 kg), without grid

*Actual times may differ due to various factors.

User Options

Grid	Please contact your local authorized Canon representative.
Software options	Please contact your local authorized Canon representative.

LANMIX LANMIX is a new name that represents the total solution offered by Canon, through the combination of our LANMIT (Large Area New-MIS Sensor and TFT) detector and other X-ray imaging equipment and software. In the future, expect more great systems from Canon under this new name.

Specifications are subject to change without notice. Names of companies or products appearing in this document are trademarks and/or registered trademarks of their respective owners.

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Canon

Digital Radiography System

CXDI-40 EC

Premium Flat Panel Detector



A HIGH SENSITIVITY, PREMIUM DIGITAL RADIOGRAPHY SOLUTION

Providing maximum image quality, superb dose efficiency, and versatile configuration options, the CXDI-40EC is the premier Digital Radiography solution for diverse applications.



Achieve Unparalleled Efficiency and Effectiveness with High-Sensitivity DR

Introducing the CXDI-40EC, a premium DR system that offers fast, filmless X-ray capture for diverse radiographic applications. Featuring Canon's advanced flat panel detector technology with Cesium Iodide (CsI) scintillator for superb dose efficiency, the high-sensitivity detector delivers clear, high-resolution images with lower X-ray dosage than conventional systems. In addition to offering easier patient positioning, seamless network integration, and significantly reduced wait time for both patients and staff, the CXDI-40EC can also be flexibly installed in various configurations to fit your exact requirements.



For Diverse Applications

The versatile CXDI-40EC can be fitted into an upright stand, C-arm stand, or Bucky table, or it can be retrofitted with existing equipment.



The CXDI-40EC can be installed in multiple ways to fit your workspace and workflow.

Large Imaging Area

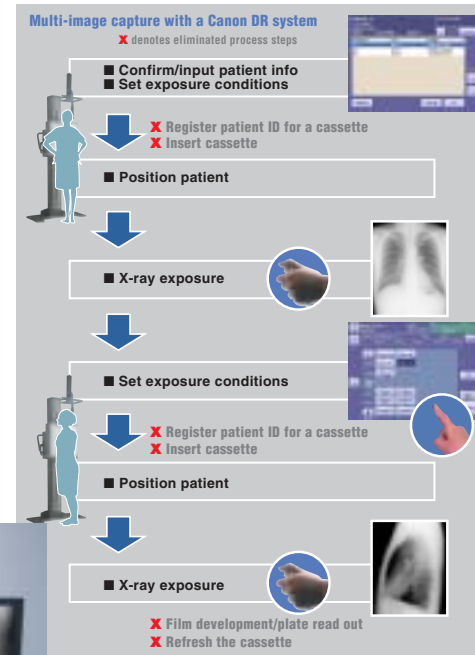
The CXDI-40EC is equipped with a large 17 x 17 in. (43 x 43 cm) imaging area for capturing X-ray images large and small without the need to adjust detector orientation. The generous size of the detector provides ample room and flexibility for a wide variety of exams, including examinations of the skull, spine, chest, abdomen, and the extremities.



Automatic sizing of X-ray images up to 17 x 17 in. (43 x 43 cm).

Streamlined Workflow, Immediate Results

The CXDI-40EC eliminates time-consuming process steps such as film development and cassette replacement to deliver X-ray images with greater efficiency and ease than conventional systems. A preview image can be viewed in just seconds after X-ray exposure, allowing for immediate image confirmation and network transfer. And if more than one image is required, the detector is ready for the next exposure without delay thanks to its rapid refresh cycle.



Superior Diagnostic Image Quality

At the core of the CXDI-40EC is Canon's Amorphous Silicon (a-Si) Flat Panel Detector with Cesium Iodide (CsI) scintillator, which produces clear, high-resolution diagnostic images in 12-bit grayscale (4096 gradations). The highly sensitive detector contains approximately 7.2 million pixels—each pixel only 160 microns wide—and features an expansive 10^4 dynamic range to capture subtle contrast and fine image detail that would otherwise appear over or underexposed on conventional film.

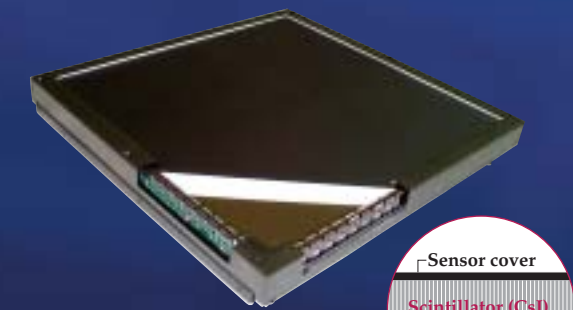
Seamless Network Integration

Ethernet 10/100 Base T connectivity with DICOM 3.0 compatibility enables seamless data transfer to any DICOM hard copy output device, PACS, or HIS/RIS for efficient printing, archiving, and remote viewing of images. The system complies with IHE (Integrating the Healthcare Enterprise) standards for interoperability to ensure easy, effective integration with your hospital network.



Highly sensitive for superb dose efficiency

The high-sensitivity CXDI-40EC features Canon's advanced LANMIT 8 (Large Area New-MIS Sensor and TFT) detector technology, which enables the capture of high-quality diagnostic images at considerably lower X-ray dosage levels than conventionally required. The key component of this innovative technology is the Cesium Iodide (CsI) scintillator that makes up the topmost layer of the Amorphous Silicon Flat Panel Detector. Composed of an array of tiny Cesium Iodide crystals that provide optimal light-channeling properties, the scintillator offers more effective X-ray absorption and higher signal-to-noise performance. This makes the CXDI-40EC more X-ray efficient and gentler on patients than conventional systems, and perfectly suited for pediatric and orthopedic use.



a-Si Flat Panel Detector



Cutaway diagram of a-Si Flat Panel Detector layers

CXDI-40EC

